

No. Name	
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Raptr Screw Anchors

High strength steel bright zinc plated to 5Mu

Material

Building materials Qualities















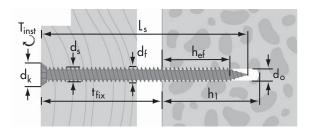


Concrete C20/25 Ntmp Recommended tension load 11 kN 0.8 Vtmp Recommended shear load 12 kN 0.8 Vtmp Recommended shear load 12 kN 1.6 Hef Effective anchorage depth mm 30 Tinut Torque for anchoring Nm 20 In Drill hole depth mm 40 Drill hole-Ø in the building material mm 6 Brick Ntmp Recommended shear load 11 kN 0.5 Vtmp Recommended shear load 12 kN 1.2 Hef Effective anchorage depth mm 40 Tinut Torque for anchoring Nm 1.5 Hef Effective anchorage depth mm 40 Tinut Torque for anchoring Nm 1.5 Drill hole depth mm 50 do Drill hole-Ø in the building material mm 6 Aerated concrete Ntmp Recommended shear load 11 kN 0.2 Vtmp Recommended shear load 12 kN 1.2 Effective anchorage depth mm 50 do Drill hole-Ø in the building material mm 6 Aerated concrete Ntmp Recommended shear load 11 kN 0.1 Vtmp Recommended shear load 11 kN 0.1 Vtmp Recommended shear load 11 kN 0.1 Tinut Torque for anchoring Nm 50 Drill hole-Ø in the building material mm 60 Tinut Torque for anchoring Nm 5 Hef Effective anchorage depth mm 60 Tinut Torque for anchoring Nm 5 Hull Drill hole depth mm 60 Tinut Torque for anchoring Nm 5 Hull Drill hole depth mm 60 Tinut Torque for anchoring Nm 5 Hull Drill hole depth mm 60 Tinut Torque for anchoring Nm 5 Hull Drill hole depth mm 60 Tinut Torque for anchoring Nm 5 Hull Drill hole depth mm 60 Tinut Torque for anchoring Nm 5 Hull Drill hole depth mm 60 Tinut Torque for anchoring Nm 5 Hull Drill hole depth mm 60 Tinut Torque for anchoring Nm 65 Hull Drill hole depth mm 60 Tinut Torque for anchoring Nm 60 T		Screw size		7.5 / T30
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Tinst Torque for anchoring Nm 40 do Drill hole depth mm 40 do Drill hole depth mm 66 Brick Nemp Recommended tension load ¹¹ kN 0.8 Vemp Recommended shear load ¹¹ kN 0.5 Vemp Recommended shear load ²² kN 1.2 hef Effective anchorage depth mm 40 Tinst Torque for anchoring Nm 15 h₁ Drill hole depth mm 50 Aerated concrete Nemp Recommended shear load ¹¹ kN 0.2 Vemp Recommended shear load ²² kN 1.5 h₁ Drill hole depth mm 50 Aerated concrete Nemp Recommended tension load ¹¹ kN 0.1 Vemp Recommended shear load ²¹ kN 0.3 hef Effective anchorage depth mm 60 Tinst Torque for anchoring Nm 5 h₁ Drill hole depth mm 60 Drill hole depth mm assembling without pre-drill Memp Recommended bending moment Nm 17 def Hole Ø in the attached part mm 60	V_{Emp}	Recommended shear load ²⁾	kN	1.6
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NEmp Recommended tension load ¹¹ kN 0.8 VEmp Recommended shear load ¹¹ kN 0.5 VEmp Recommended shear load ²¹ kN 1.2 hef Effective anchorage depth mm 40 Tinst Torque for anchoring Nm 1.5 h₁ Drill hole depth mm 50 d₀ Drill hole-Ø in the building material mm 6 NEmp Recommended tension load ¹¹ kN 0.2 VEmp Recommended shear load ¹¹ kN 0.1 VEmp Recommended shear load ²¹ kN 0.3 hef Effective anchorage depth mm 60 Tinst Torque for anchoring Nm 5 h₁ Drill hole depth mm assembling without pre-drill d₀ Drill hole-Ø in the building material Nm 17 df Hole-Ø in the attached part Nm 6	d_0	Drill hole-Ø in the building material	mm	6
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d ₀ Drill hole-Ø in the building material mm 6 Aerated concrete N _{Emp} Recommended tension load ¹¹ kN 0.2 V _{Emp} Recommended shear load ¹¹ kN 0.1 V _{Emp} Recommended shear load ²¹ kN 0.3 h _{ef} Effective anchorage depth mm 60 T _{inst} Torque for anchoring Nm 5 h ₁ Drill hole depth mm assembling without pre-drill M _{Emp} Recommended bending moment Nm 17 d _f Hole-Ø in the attached part mm 6	T _{inst}	Torque for anchoring	Nm	15
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	h ₁	Drill hole depth	mm	50
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	d_0	Drill hole-Ø in the building material	mm	6
$\begin{array}{c} V_{Emp} \\ V_{Emp} \\ Recommended shear load \ ^{1)} \\ V_{Emp} \\ Recommended shear load \ ^{2)} \\ kN \\ 0.3 \\ k_{ef} \\ Effective anchorage depth \\ T_{inst} \\ Torque for anchoring \\ kn \\ 0 \\ Drill hole depth \\ kn \\ 0 \\ Drill hole \ ^{\varnothing} in the building material \\ M_{Emp} \\ Recommended bending moment \\ kn \\ M_{Emp} \\ Recommended bending moment \\ M_{Emp} \\ Recommen$		Aerated concrete		
V _{Emp} Recommended shear load ²) kN 0.3 h _{ef} Effective anchorage depth mm 60 T _{inst} Torque for anchoring Nm 5 h ₁ Drill hole depth mm assembling without pre-drill d ₀ Drill hole-Ø in the building material mm 17 M _{Emp} Recommended bending moment Nm 17 d _f Hole-Ø in the attached part mm 6	N_{Emp}	Recommended tension load 1)	kN	0.2
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	V_{Emp}	Recommended shear load 1)	kN	0.1
T _{inst} Torque for anchoring Nm 5 h ₁ Drill hole depth mm d ₀ Drill hole-Ø in the building material mm M _{Emp} Recommended bending moment Nm 17 d _f Hole-Ø in the attached part mm 6	V_{Emp}	Recommended shear load ²⁾	kN	0.3
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	h_{ef}	Effective anchorage depth	mm	60
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	T _{inst}	Torque for anchoring	Nm	5
M _{Emp} Recommended bending moment Nm 17 df Hole-Ø in the attached part mm 6	h ₁	Drill hole depth	mm	assambling without pro-drill
d _f Hole-Ø in the attached part mm 6	d_0	Drill hole-Ø in the building material	mm	assembling willion pre-arili
d _f Hole-Ø in the attached part mm 6				
·	M_{Emp}	Recommended bending moment	Nm	17
d _k Ø-head mm 11	d_{f}	Hole-Ø in the attached part	mm	6
	d_k	Ø-head	mm	11

Safety factor of 3 included

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No. Name

Material

Raptr-Plus Screw Anchors High strength steel with Screw Armour™ Ceramic Coating

Building materials Qualities

















Concrete C20/25 NEmp Recommended tension load 11 kN 0.8 VEmp Recommended shear load 21 kN 0.8 VEmp Recommended shear load 22 kN 1.6 hef Effective anchorage depth mm 30 Tinst Torque for anchoring Nm 20 h1 Drill hole depth mm 40 d0 Drill hole-Ø in the building material mm 6 Brick NEmp Recommended tension load 11 kN 0.8 VEmp Recommended shear load 21 kN 1.2 hef Effective anchorage depth mm 40 Tinst Torque for anchoring Nm 0.5 VEmp Recommended shear load 21 kN 1.2 hef Effective anchorage depth mm 40 Tinst Torque for anchoring Nm 15 h1 Drill hole depth mm 50 d0 Drill hole-Ø in the building material mm 6 Aerated concrete NEmp Recommended tension load 11 kN 0.2 VEmp Recommended shear load 21 kN 0.3	
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$\begin{array}{c} V_{\text{Emp}} & \text{Recommended shear load} \stackrel{11}{} 1 & \text{kN} & 0.5 \\ V_{\text{Emp}} & \text{Recommended shear load} \stackrel{21}{} 2 & \text{kN} & 1.2 \\ h_{\text{ef}} & \text{Effective anchorage depth} & \text{mm} & 40 \\ T_{\text{inst}} & \text{Torque for anchoring} & \text{Nm} & 15 \\ h_{1} & \text{Drill hole depth} & \text{mm} & 50 \\ d_{0} & \text{Drill hole-}\varnothing \text{ in the building material} & \text{mm} & 6 \\ \\ \hline & \text{Aerated concrete} \\ \hline N_{\text{Emp}} & \text{Recommended tension load} \stackrel{11}{} 1 & \text{kN} & 0.2 \\ V_{\text{Emp}} & \text{Recommended shear load} \stackrel{11}{} 1 & \text{kN} & 0.1 \\ \hline V_{\text{Emp}} & \text{Recommended shear load} \stackrel{21}{} 2 & \text{kN} & 0.3 \\ \hline \end{array}$	
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V _{Emp} Recommended shear load ²⁾ kN 0.3	
- Emp	
h _{ef} Effective anchorage depth mm 60	
T _{inst} Torque for anchoring Nm 5	
h ₁ Drill hole depth mm assembling without pre	-drill
d ₀ Drill hole-Ø in the building material mm	ui iii
M _{Emp} Recommended bending moment Nm 17	
d _f Hole-Ø in the attached part mm 6	
d _k Ø-head mm 11	

Safety factor of 3 included

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TIV

SCREWarmour High Performance Coating

What's Screw Armour?

ScrewArmour is a specially formulated European plating system designed specifically for high performance corrosion protection of external grade fasteners. It is an 8 stage multiple layering system of zinc, chemical polymers and a tough double layer ceramic coating which is stage baked at high temperatures to provide a super tough anti-corrosion coating far superior than any standard galvanising.

The top colour coat provides a non protective decorative finish with ScrewArmours superb anti-corrosion properties coming from the bonded underlying layers. The coating is incredibly hard and scratch resistant making it virtually impossible to reveal the base metal during normal wear and tear. This tough coating makes it perfect for thread cutting fasteners and self drilling screws where normal galvanising and other finishes can peel, wear off or breakdown during installation as well as protecting driver recesses which often suffer plating damage, particularly when using impact drivers and powerful screwguns.

ScrewArmour is fully resistant to acid and alkaline attack and as the top layers are not metallic based, it is completely resistant to galvanic corrosion. So for metal, you can use it with any other metal or surface coated product with no cross contamination corrosion issues and for timber you can safely use it anywhere, with any timber (hard or softwood) along with any timber preservatives including CCA and ACQ pressure treatments.

ScrewArmour coated fasteners fully exceed the performance of class 4 galvanising and conform to corrosive gas test standard (Kesternich) DIN50018 giving a salt spray fog test exceeding (JISZ2731) 1,500 hours (ASTM B117).

How does it Compare to Galvanising?

- It has considerably superior high performance long term corrosion resistance lasting over 6 times longer than standard galvanised finishes, with excellent performance against gas, abrasive weathering and other corrosive factors including salt water and spray, humidity and high UV environments.
- It is resistant to acid and alkaline attack, galvanic corrosion and hydrogen embrittlement.
- It offers corrosion resistance against scratches, nicks and marks with composite layers providing underlying base metal protection.
- It's electrolytic corrosion resistance means there are no contact corrosion issues with other
 metals and so can be safely used with any base material in any condition wet or dry.
- It is compatible with all uncoated, coated and pre-painted metal surfaces and is paintable if required without special preparation requirements.
- The smooth fine layered coating offers excellent visual paint grade aesthetics and prevents
 the common problem of coated fastener threads and driver recesses becoming clogged, so all
 drivers fit ScrewArmoured fasteners perfectly.
- ScrewArmour is environmentally friendly containing none of the hazardous substances associated with other market leading coatings.

SCREWarmour™

any application, any timber, any metal, inside or out

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